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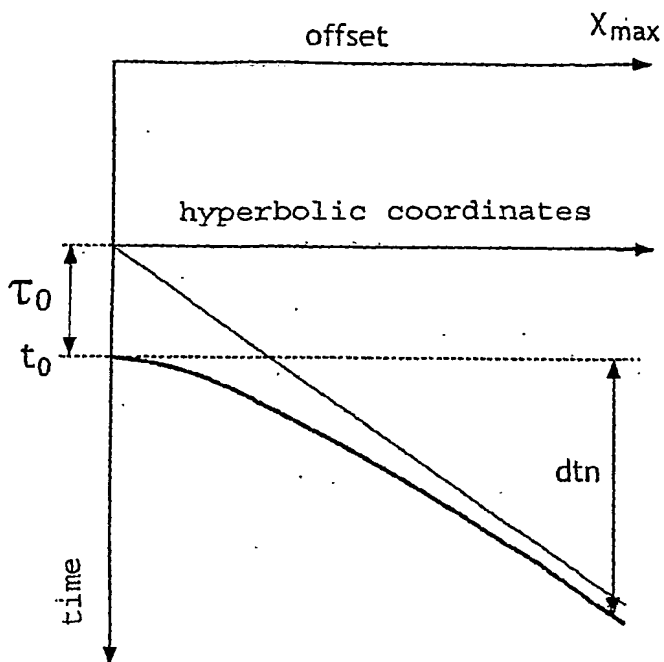


FIG. 1a

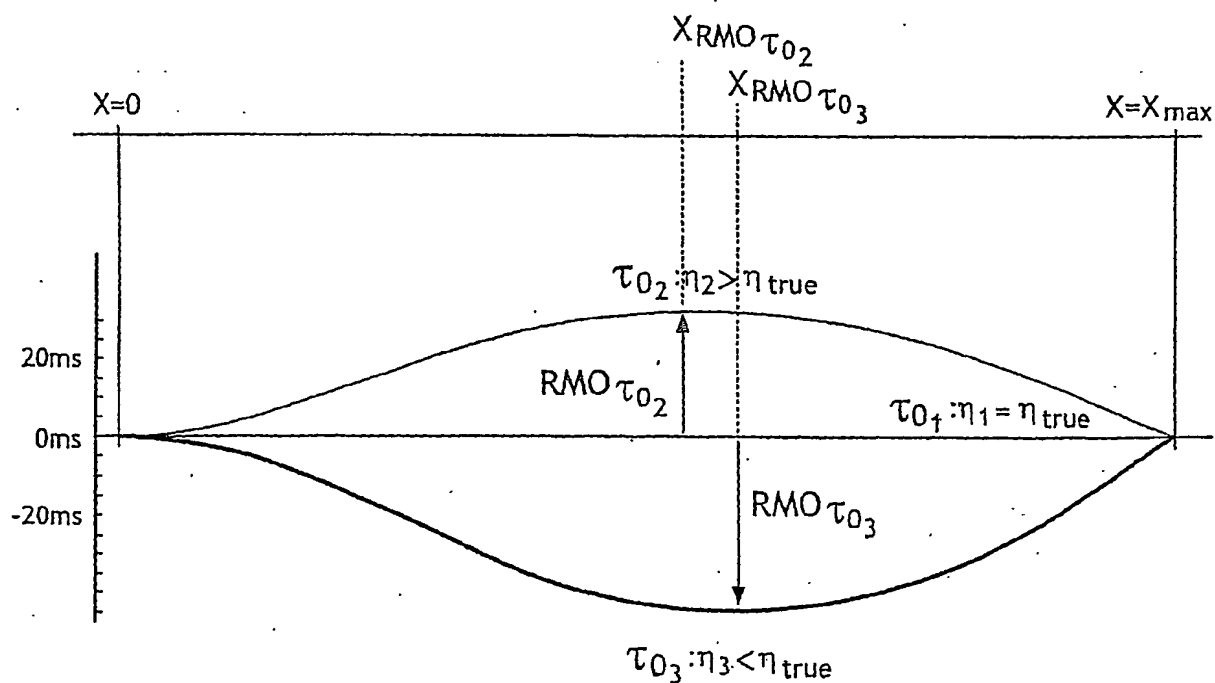
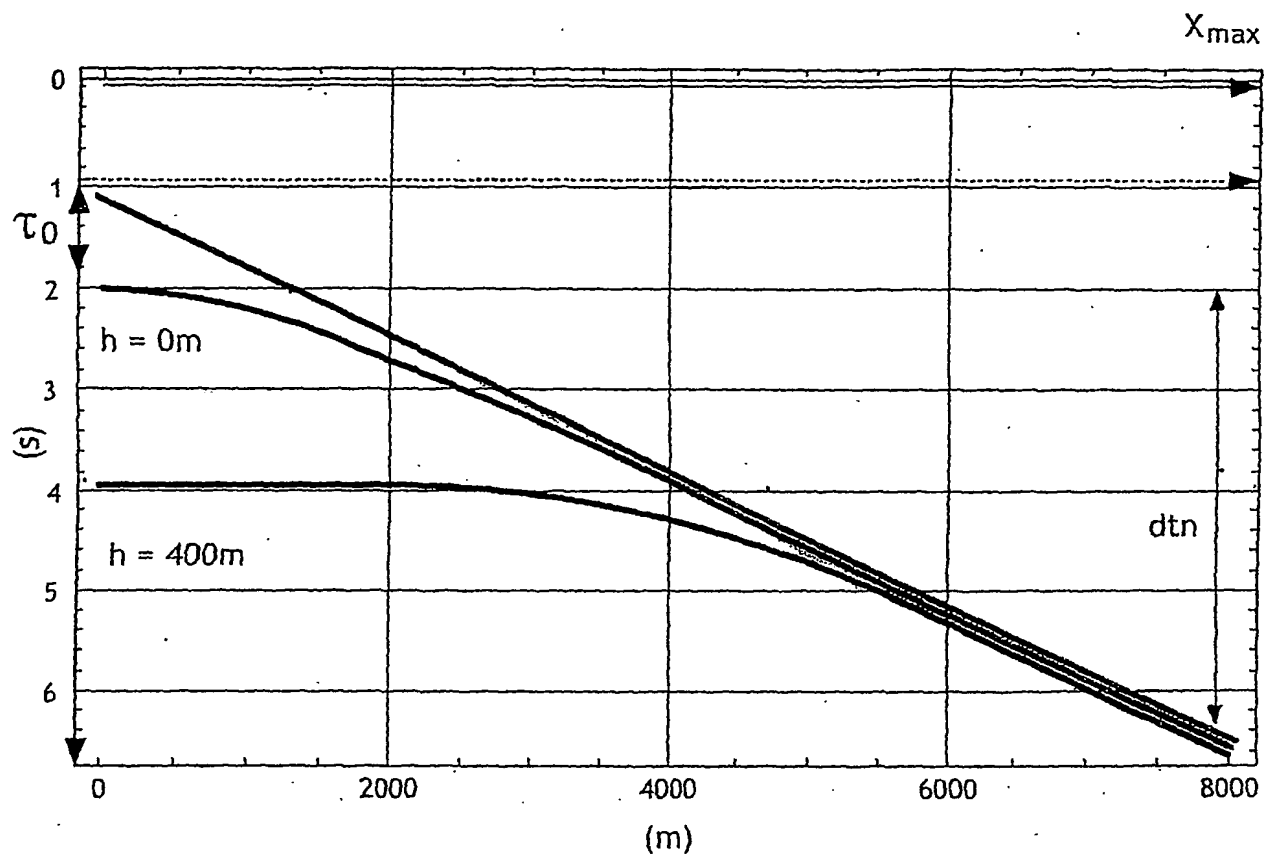


FIG. 2

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FIG. 1b

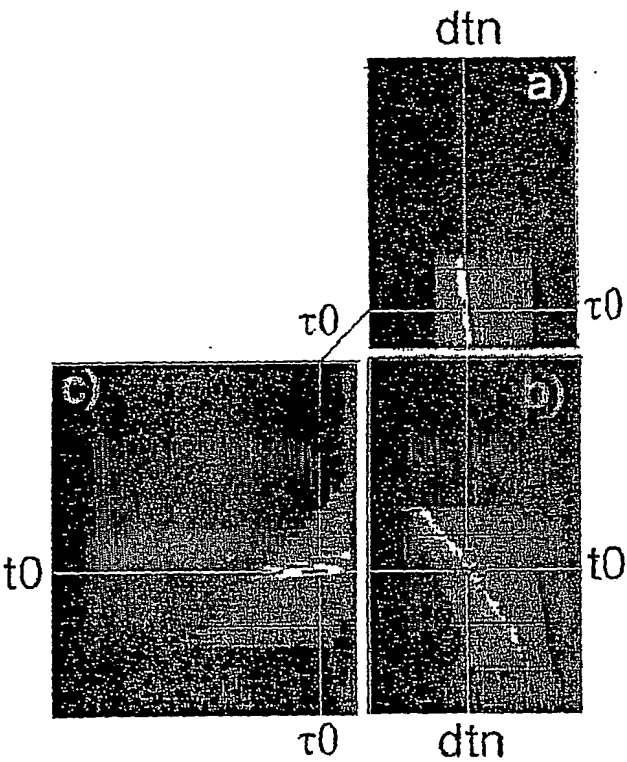


FIG. 3a

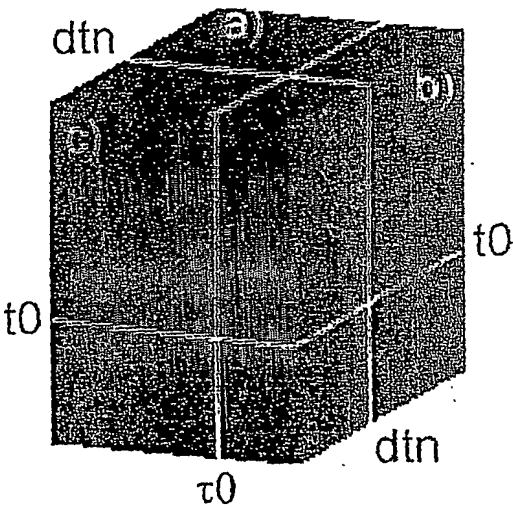
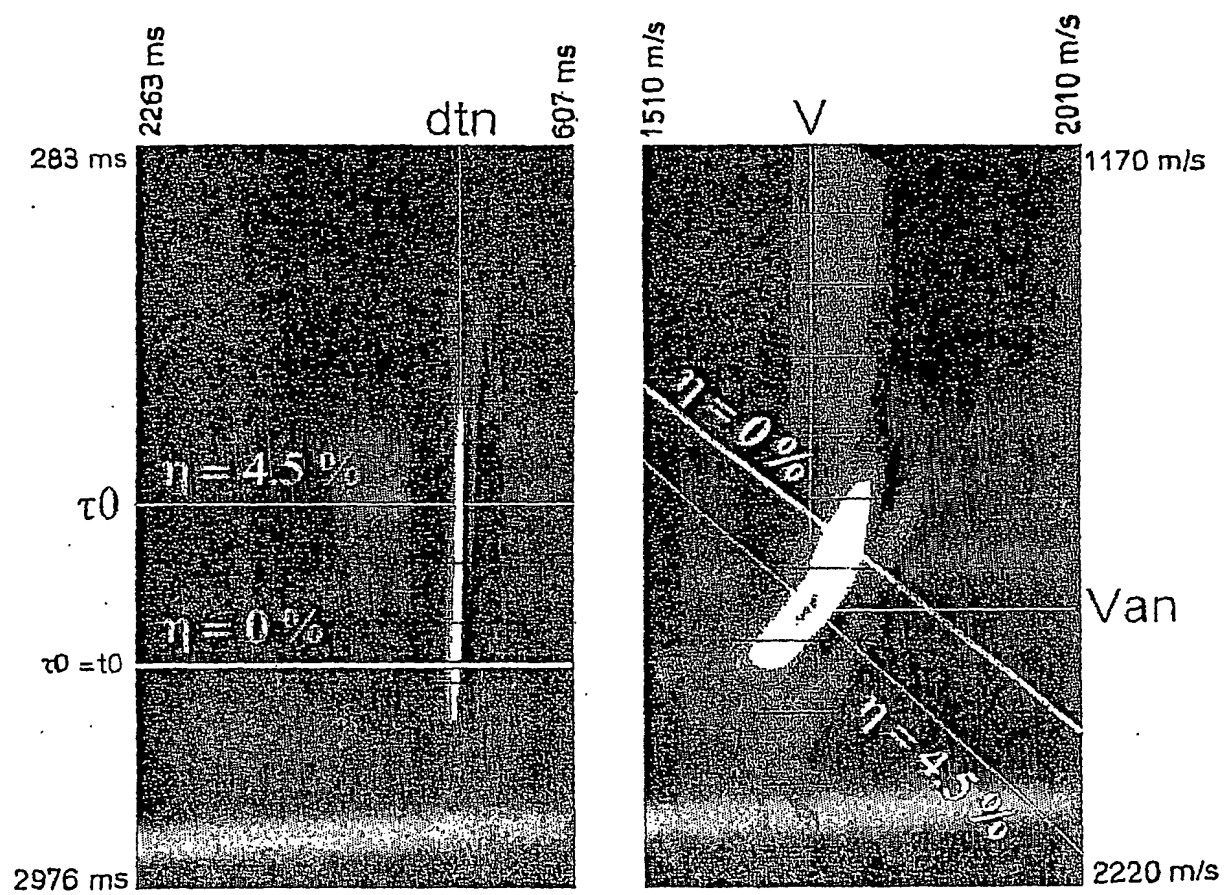


FIG. 3b

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FIG. 4

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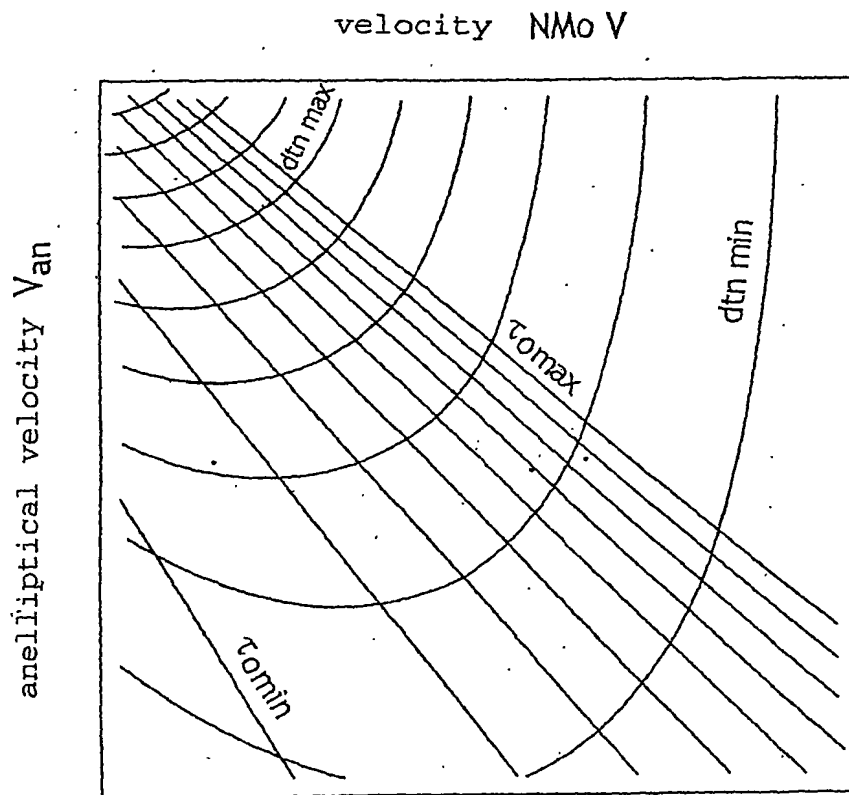
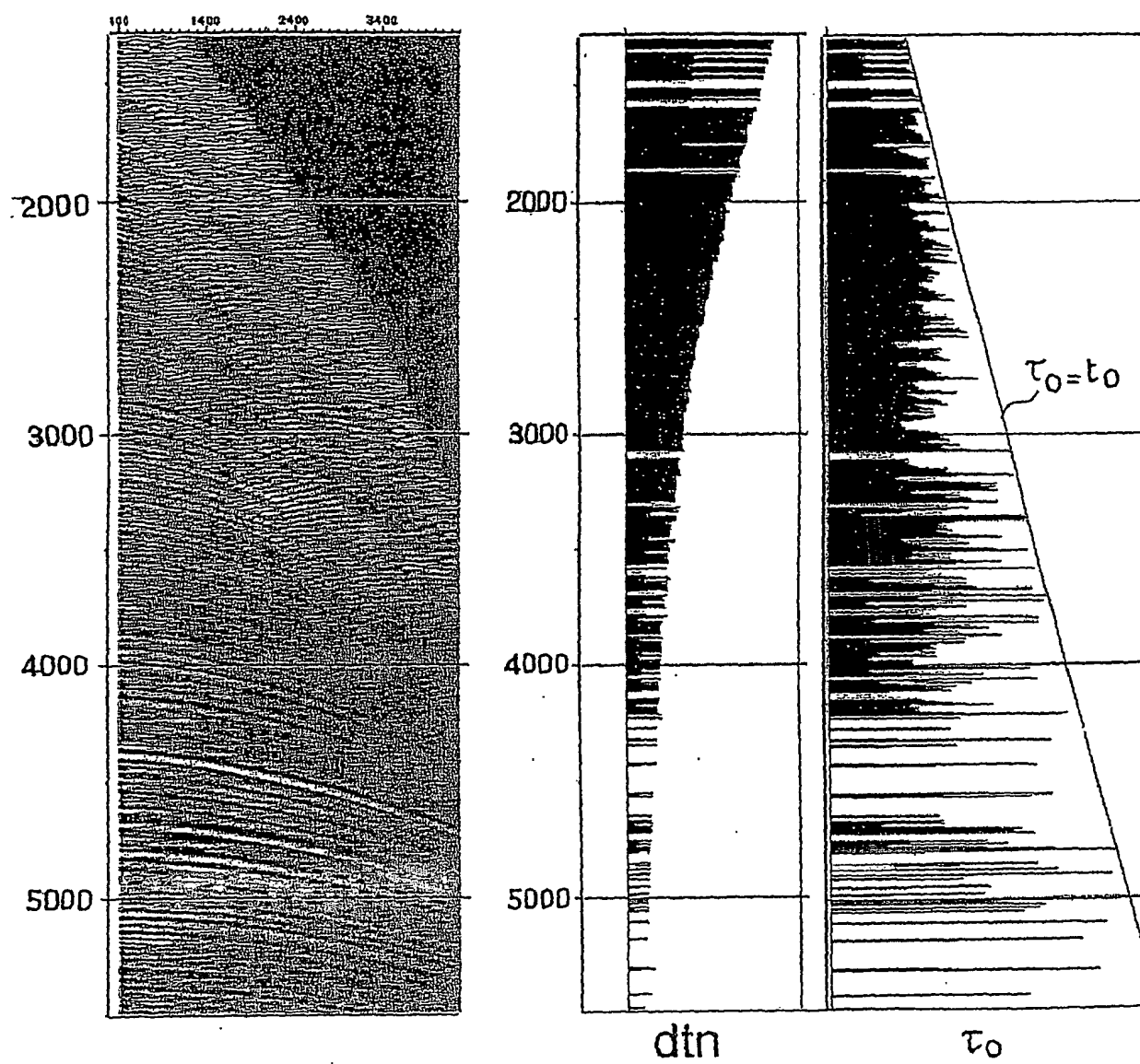
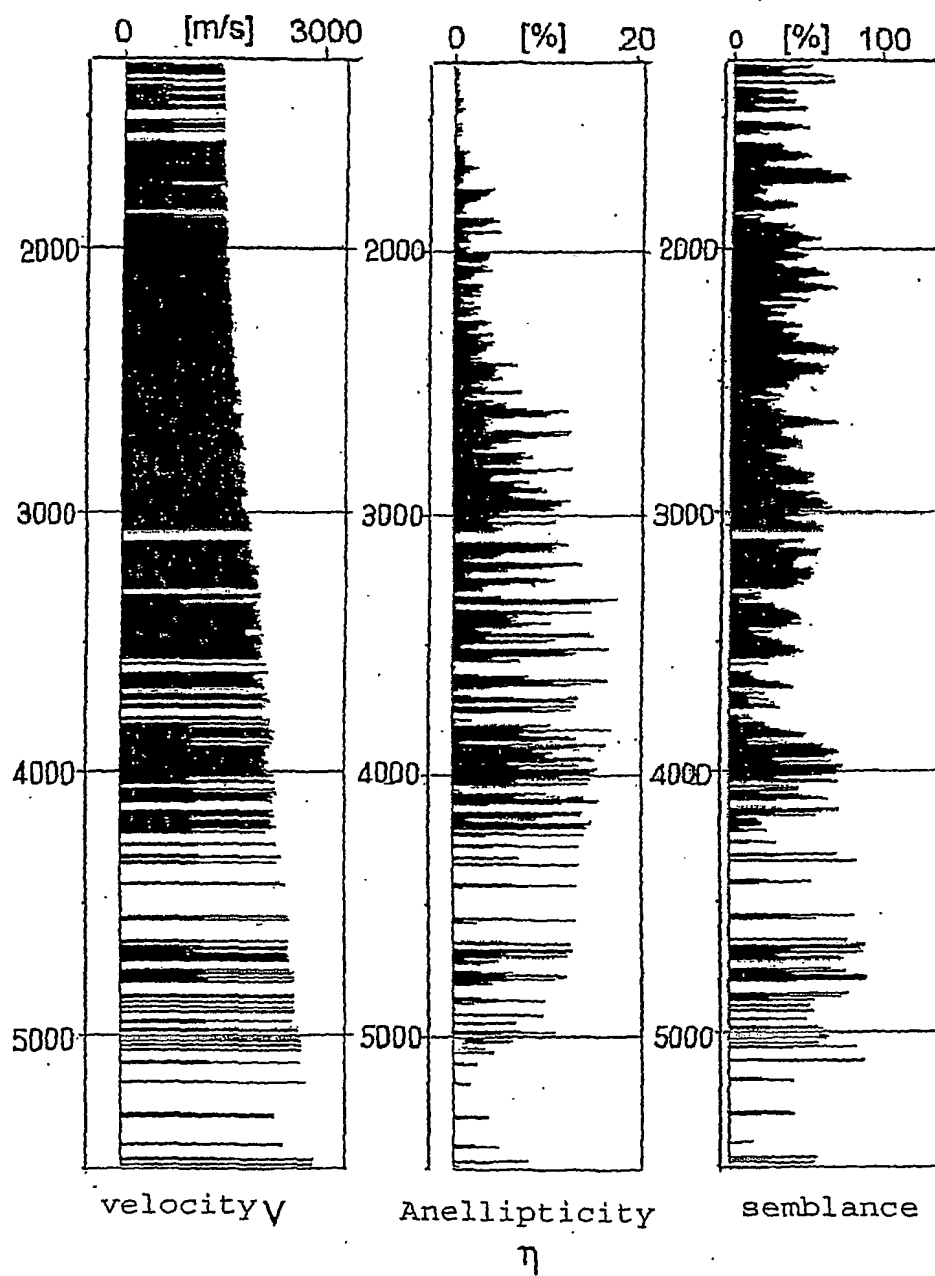


FIG.5

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FIG. 6

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FIG. 7

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FIG. 8a

1a

Initialise

- Determine limits of the analysis volume (dt_n , τ_0 , t_0)
- Calculate NMO corrections $CORR_{NMO}$ for all offsets and for all nodes (dt_n , τ_0)
- Calculate corridor limits of the analyses made

2a

For each gather of traces at midpoints

3a

For each node (dt_n , τ_0)**For each t_0 along the corridor:**

- Application of NMO corrections $CORR_{NMO}$
- Calculate the semblance
- Calculate the summation in near offsets

4a

For each picking time t_0

Search for the maximum semblance in the corridor and the corresponding node (dt_n , τ_0)

Does the node (dt_n , τ_0) correspond to a stack end?

YES

Create the $dt_n(t_0)$, $\tau_0(t_0)$ and semblance (t_0) series

5a

Select and adjust pickings

- Increasing sort of the semblance series (t_0)
- Reject pickings too close to pickings with strong semblance
- Adjust selected values (dt_n , τ_0) by parabolic interpolation
- Reject pairs (dt_n , τ_0) for which the Dix interval velocities with pairs (dt_n , τ_0) with the strongest semblance, are unacceptable

6a

Conversion of pickings (dt_n , τ_0) into $V(t_0)$ and $\eta(t_0)$ laws

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FIG. 8b

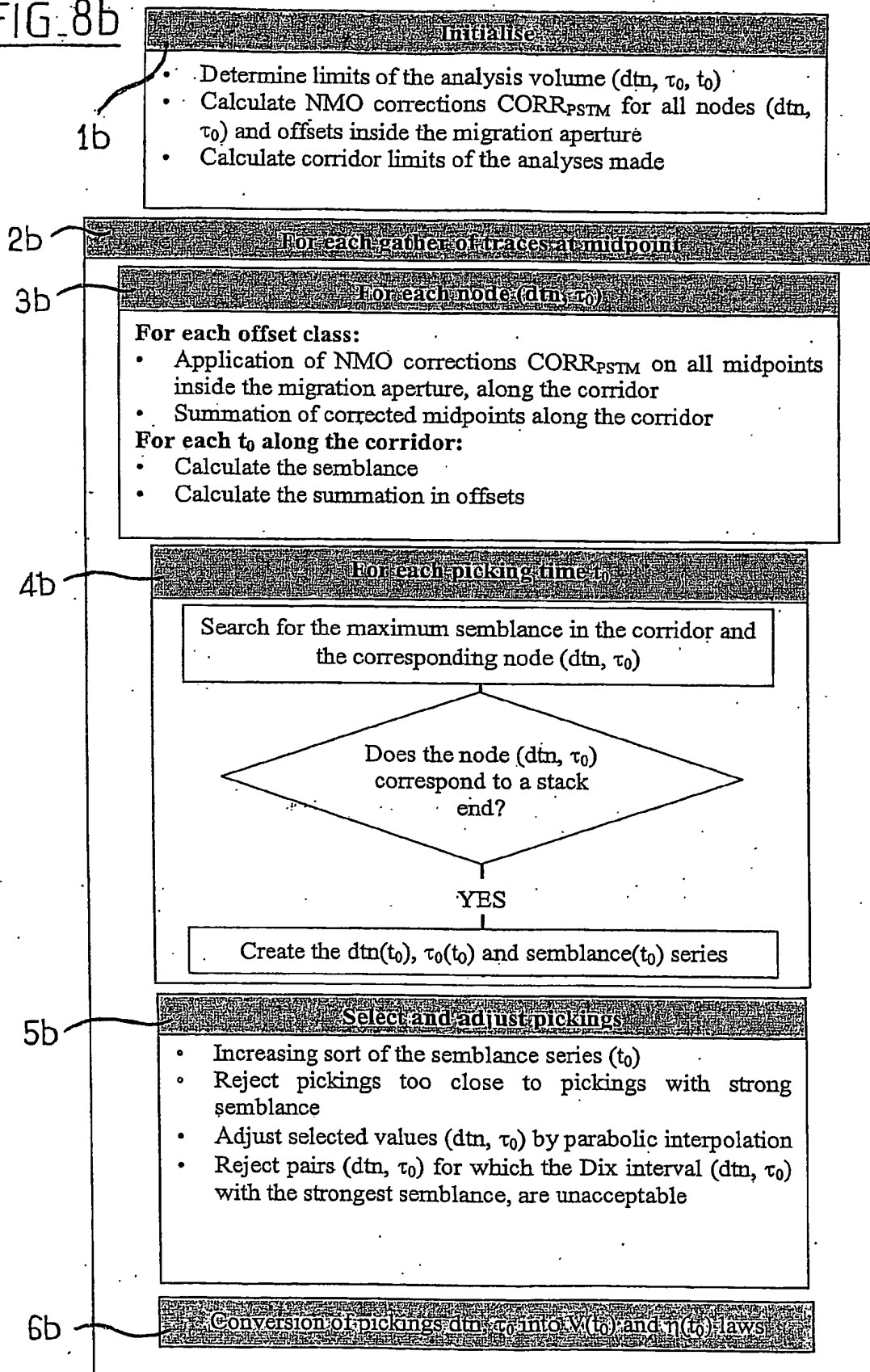


FIG. 9

